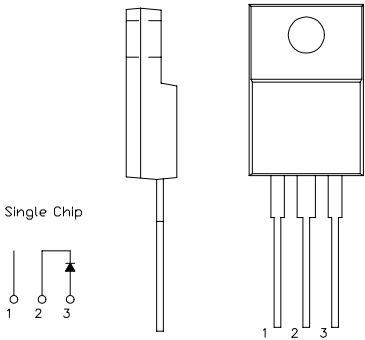


SBD T y p e : FSH05A09B

OULINE DRAWING

FEATURES

- *Similar to TO-220AB Case
- *Fully Molded Isolation
- *Low Forward Voltage Drop
- *Low Power Loss,High Efficiency
- *High Surge Capability
- *Tj=150 °C operation



Maximum Ratings

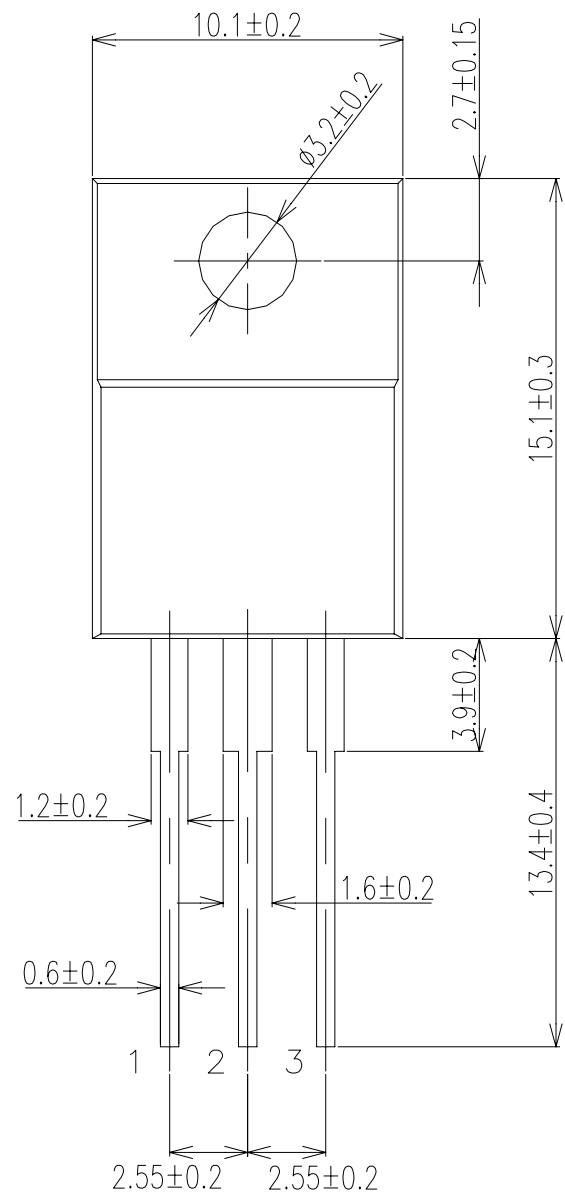
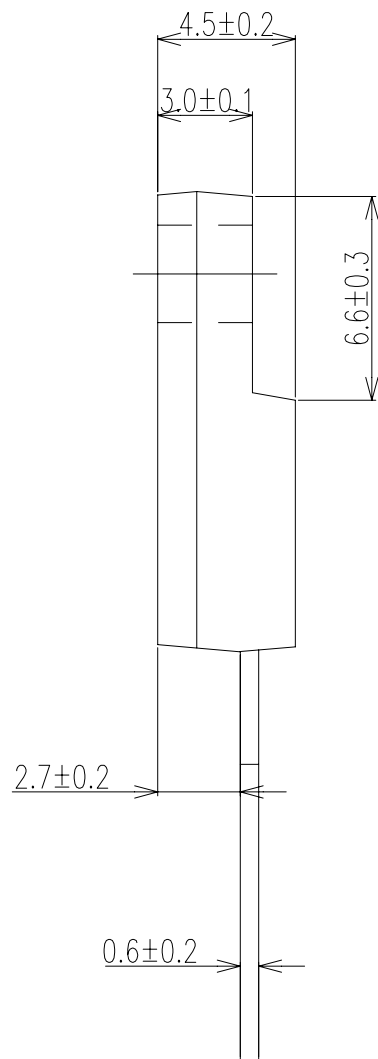
Approx Net Weight: 1.75g

Rating	Symbol	FSH05A09B			Unit
Repetitive Peak Reverse Voltage	V _{RRM}	90			V
Average Rectified Output Current	I _O	5	Tc=127°C	50 Hz half Sine Wave Resistive Load	A
RMS Forward Current	I _{F(RMS)}	7.85			A
Surge Forward Current	I _{FSM}	120	50Hz Half Sine Wave ,1cycle Non-repetitive		A
Operating JunctionTemperature Range	T _{jw}	-40 to +150			°C
Storage Temperature Range	T _{stg}	-40 to +150			°C
Mounting torque	F _{tor}	recommended torque = 0.5			N•m

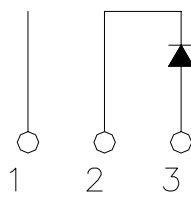
Electrical • Thermal Characteristics

Characteristics	Symbol	Conditions	Min.	Typ.	Max.	Unit
Peak Reverse Current	I _{RM}	Tj= 25°C, V _{RM} = V _{RRM}	-	-	1	mA
Peak Forward Voltage	V _{FM}	Tj= 25°C, I _{FM} = 5 A	-	-	0.85	V
Thermal Resistance	Rth(j-c)	Junction to Case	-	-	5	°C /W
	Rth(c-f)	Cace to Fin	-	-	1.5	°C /W

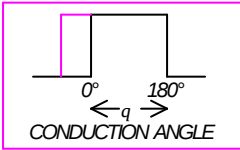
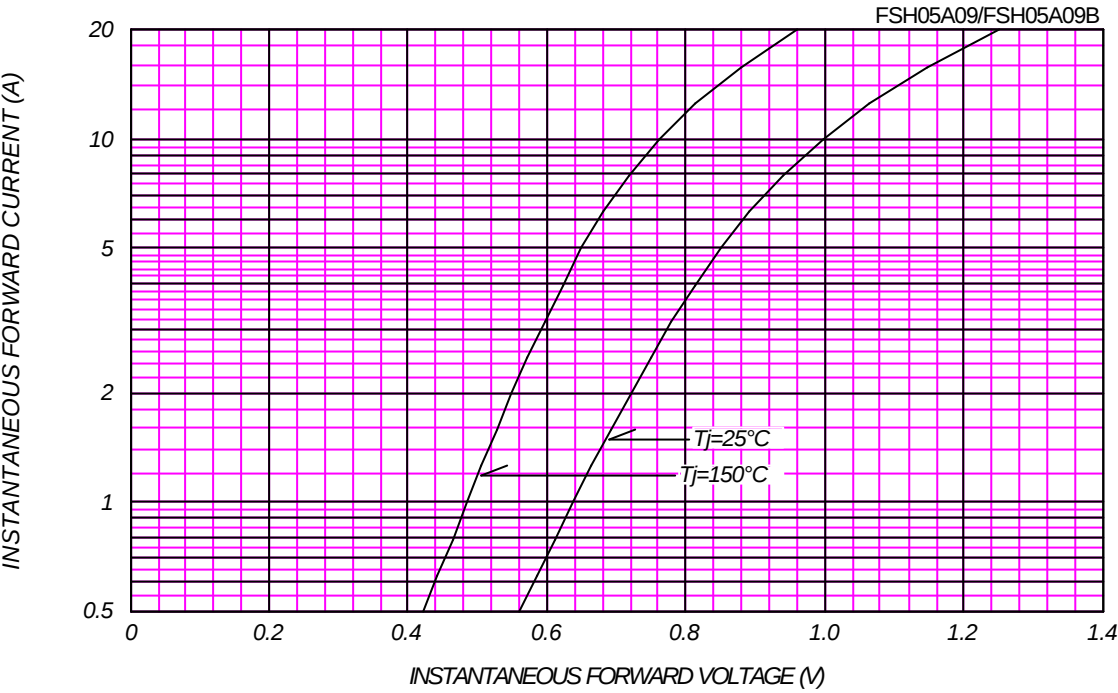
FSH_A_B OUTLINE DRAWING (Dimensions in mm)



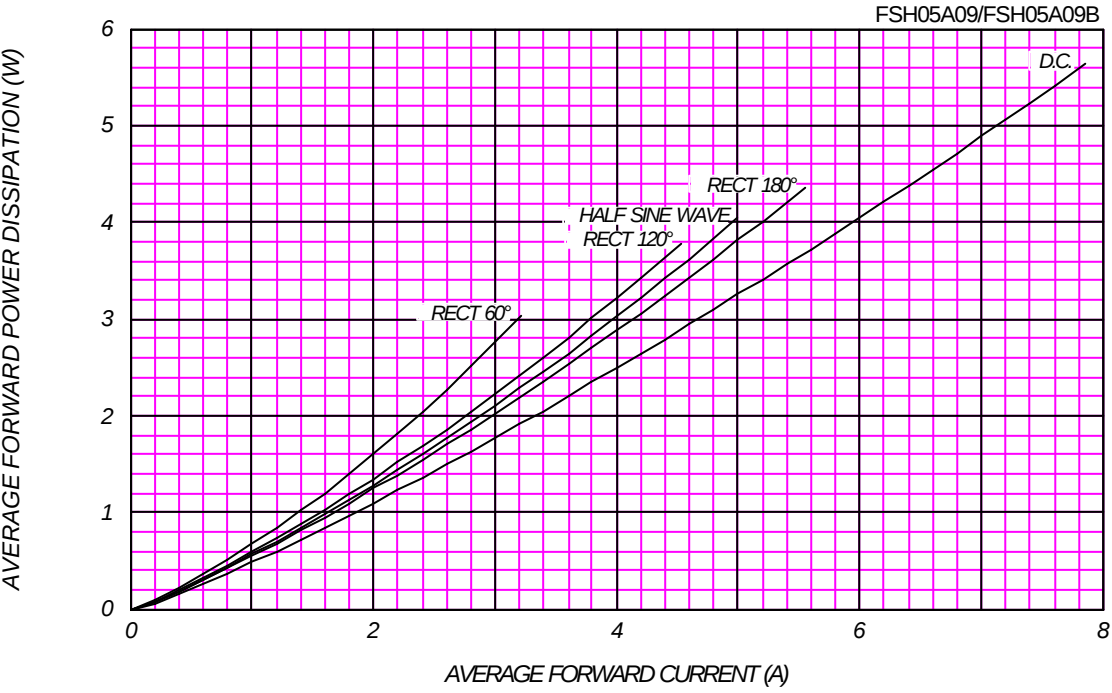
Single Chip



FORWARD CURRENT VS. VOLTAGE



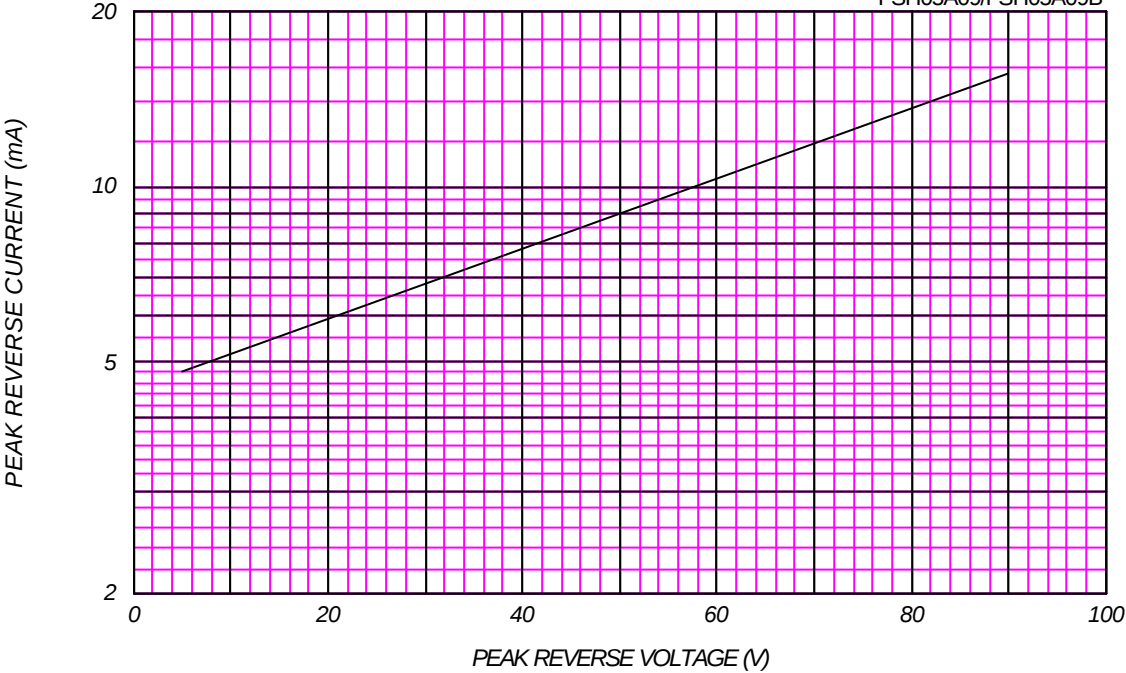
AVERAGE FORWARD POWER DISSIPATION



PEAK REVERSE CURRENT VS. PEAK REVERSE VOLTAGE

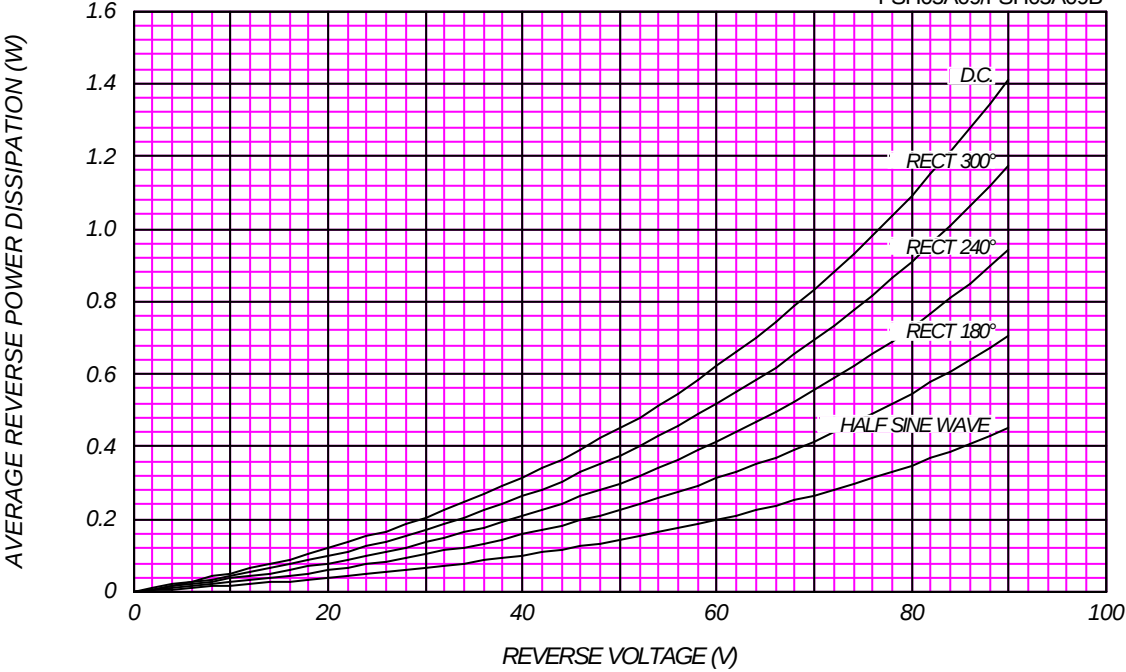
T_j= 150 °C

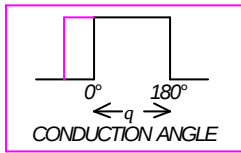
FSH05A09/FSH05A09B



AVERAGE REVERSE POWER DISSIPATION

FSH05A09/FSH05A09B

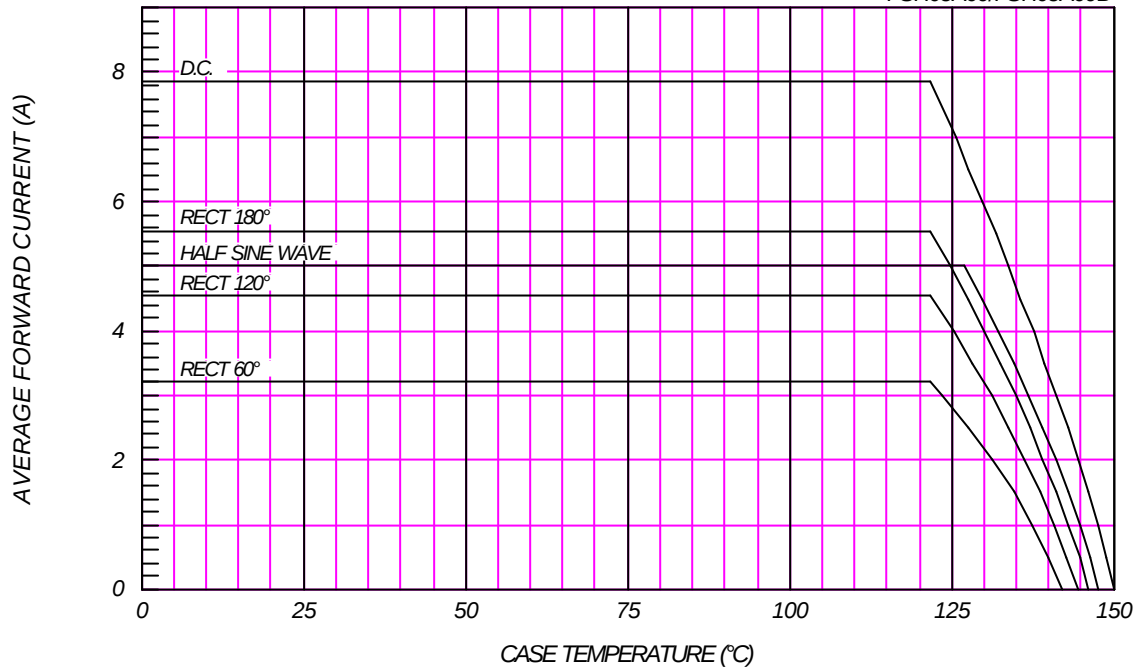




AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE

$V_{RM}=90\text{ V}$

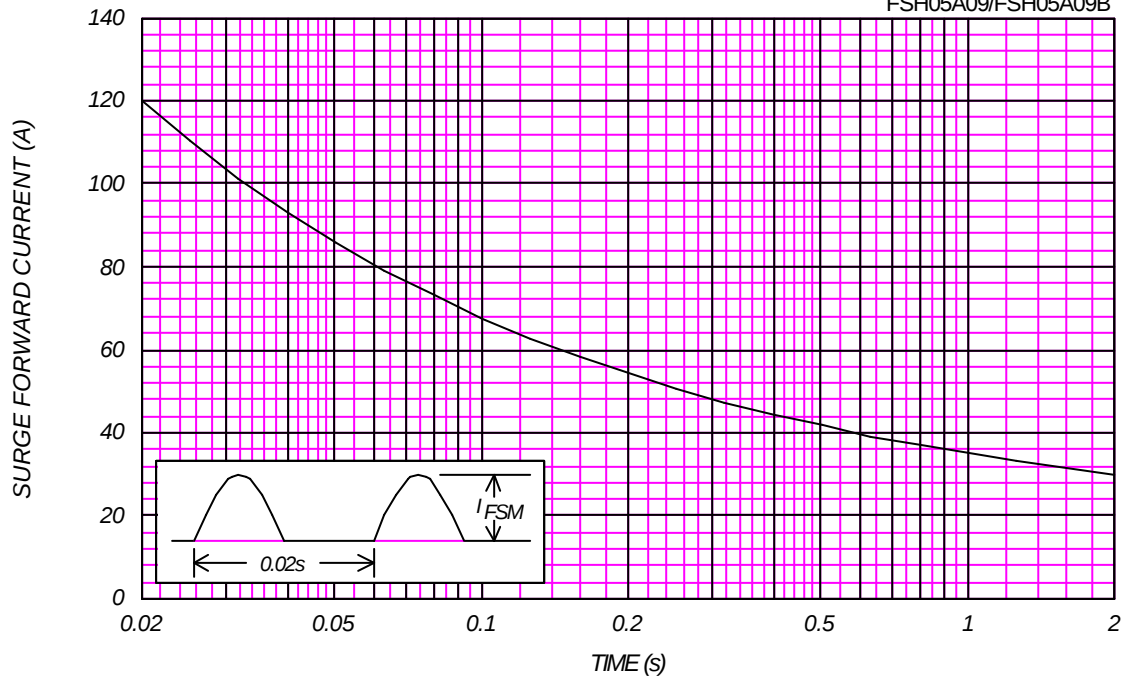
FSH05A09/FSH05A09B



SURGE CURRENT RATINGS

$f=50\text{ Hz}$, Half Sine Wave, Non-Repetitive, No Load

FSH05A09/FSH05A09B



JUNCTION CAPACITANCE VS. REVERSE VOLTAGE

$T_j=25^{\circ}\text{C}$, $V_m=20\text{mV}_{\text{RMS}}$, $f=100\text{kHz}$, Typical Value

FSH05A09/FSH05A09B

